

FIG. 2

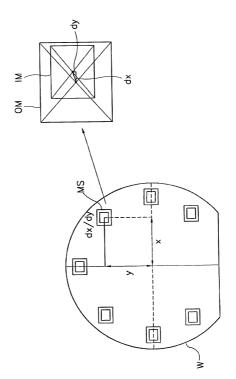


FIG. 3

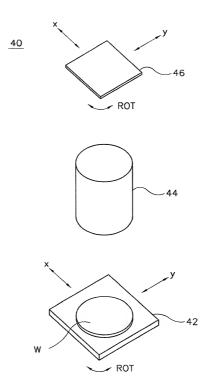


FIG. 4

MEASURING TIME				
LOT ID				
0F-X				
0F-Y				
SC-X				
SC-Y				
0RT				
W-ROT				
RED-X				
RED-Y				
ROT-X				
R0T-Y				

FIG. 5

GENERATING TIME				
LOT ID				
FWD OF-X	RET OF-X	NN OF-X	IN OF-X	
0F-Y	0F-Y	0F-Y	0F-Y	
SC-X	SC-X	SC-X	SC-X	
SC-Y	SC-Y	SC-Y	SC-Y	
ORT	0RT	ORT	ORT	
W-ROT	W-ROT	W-ROT	W-ROT	
RED-X	RED	RED	RED	
RED-Y				
ROT-X	ROT	ROT	ROT	
ROT-Y				

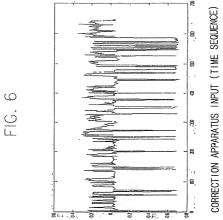
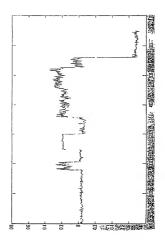


FIG. 7





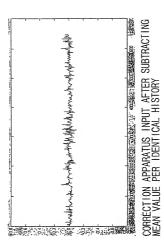


FIG.9

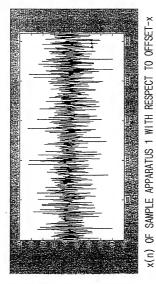
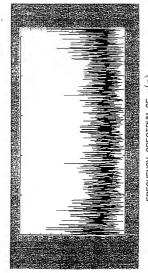


FIG. 10



FREQUENCY SPECTRUM OF x(n)

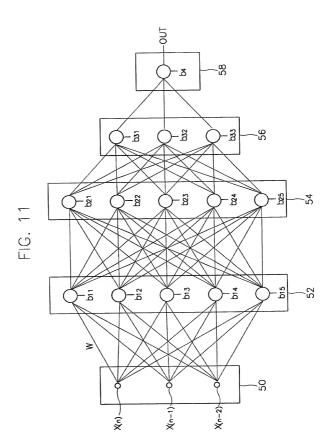


FIG. 12

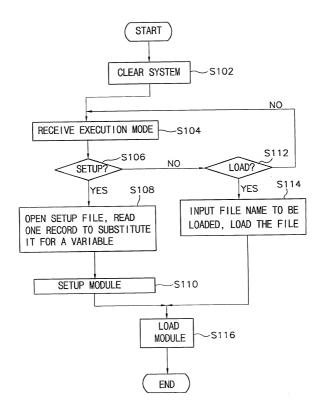


FIG. 13A

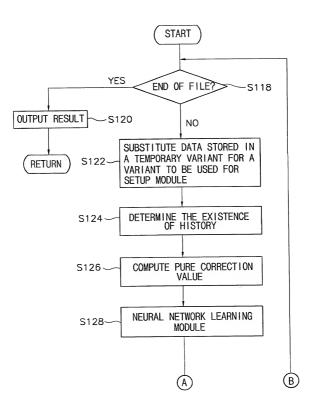


FIG. 13B

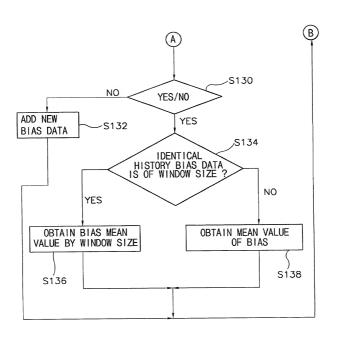


FIG. 14

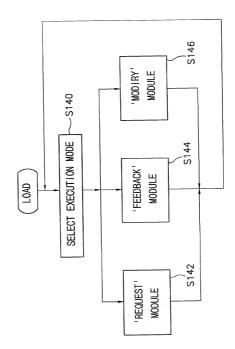


FIG. 15

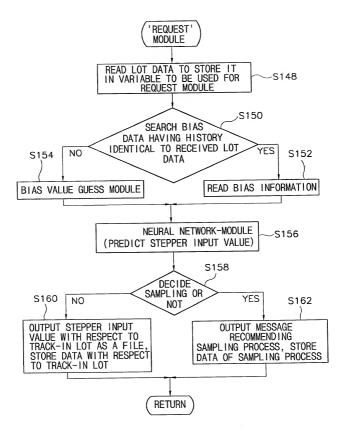


FIG. 16

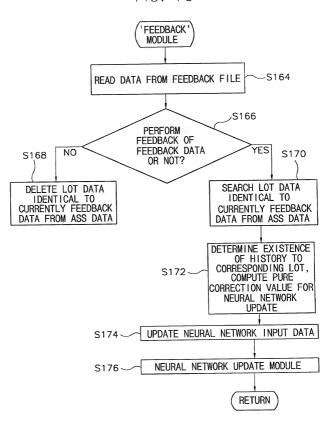


FIG. 17

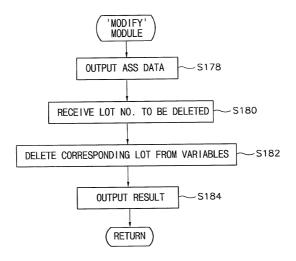


FIG. 18A

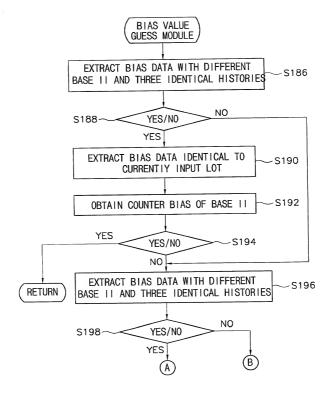


FIG. 18B

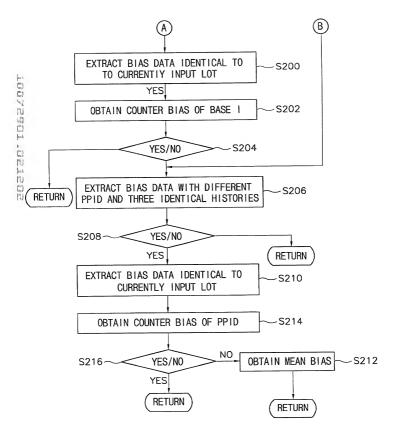


FIG. 19

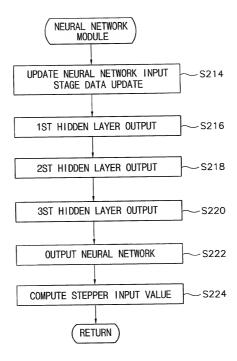


FIG. 20

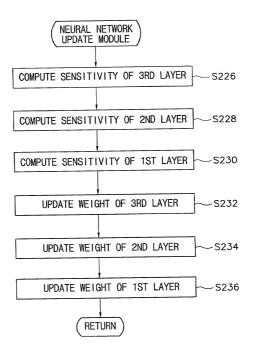
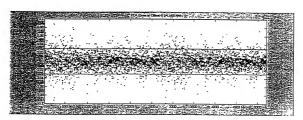
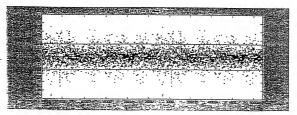


FIG. 21

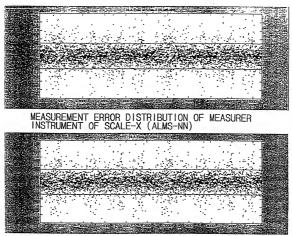


MEASUREMENT ERROR DISTRIBUTION OF MEASURER INSTRUMENT OF OFFSET-X (ALMS-NN)



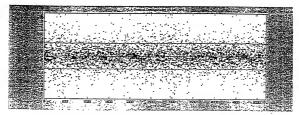
MEASUREMENT ERROR DISTRIBUTION OF MEASURER INSTRUMENT OF OFFSET-X (TRADITIONAL SYSTEM)

FIG. 22

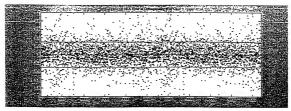


MEASUREMENT ERROR DISTRIBUTION OF MEASURER INSTRUMENT OF SCALE-X (TRADITIONAL SYSTEM)

FIG. 23

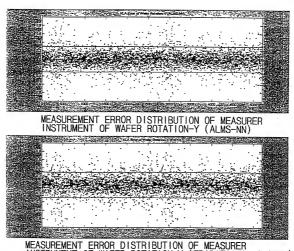


MEASUREMENT ERROR DISTRIBUTION OF MEASURER INSTRUMENT OF ORTHOGONALITY (ALMS-NN)



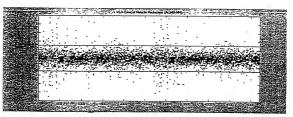
MEASUREMENT ERROR DISTRIBUTION OF MEASURER INSTRUMENT OF ORTHOGONALITY (TRADITIONAL SYSTEM)

FIG. 24



MEASUREMENT ERROR DISTRIBUTION OF MEASURER INSTRUMENT OF WAFER ROTATION—Y (TRADITIONAL SYSTEM)

FIG. 25



MEASUREMENT ERROR DISTRIBUTION OF MEASURER INSTRUMENT OF RETICLE REDUCTION (ALMS-NN)



MEASUREMENT ERROR DISTRIBUTION OF MEASURER INSTRUMENT OF RETICLE REDUCTION (TRADITIONAL SYSTEM)

FIG. 26

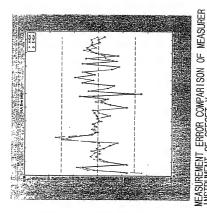
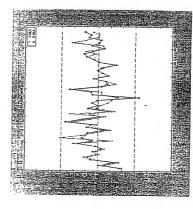
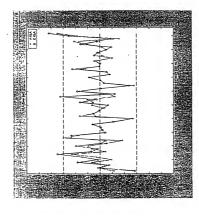


FIG. 27



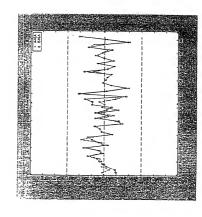
MEASUREMENT ERROR COMPARISON OF MEASURER INSTRUMENT OF SCALE-X

FIG. 28



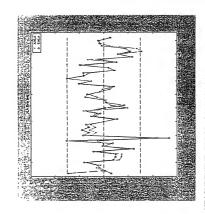
MEASUREMENT ERROR COMPARISON OF MEASURER INSTRUMENT OF ORTHOGONALITY

FIG. 29



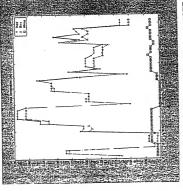
MEASUREMENT ERROR COMPARISON OF MEASURER INSTRUMENT OF WAFER ROTATION—Y

FIG. 30



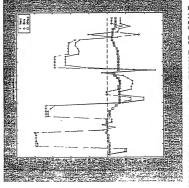
MEASUREMENT ERROR COMPARISON OF MEASURER INSTRUMENT OF RETICLE REDUCTION

FIG. 31



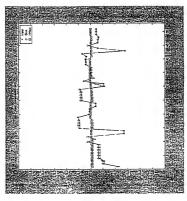
APPARATUS INPUT VALUE FORMAT OF OFFSET-X

FIG. 32



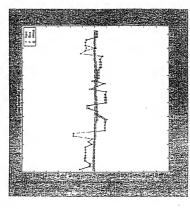
APPARATUS INPUT VALUE FORMAT OF SCALE-X

FIG. 33



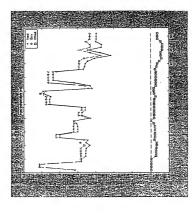
APPARATUS INPUT VALUE FORMAT OF ORTHOGONALITY

FIG. 34



APPARATUS INPUT VALUE FORMAT OF WAFER ROTATION-Y

FIG. 35



APPARATUS INPUT VALUE FORMAT OF RETICLE REDUCTION